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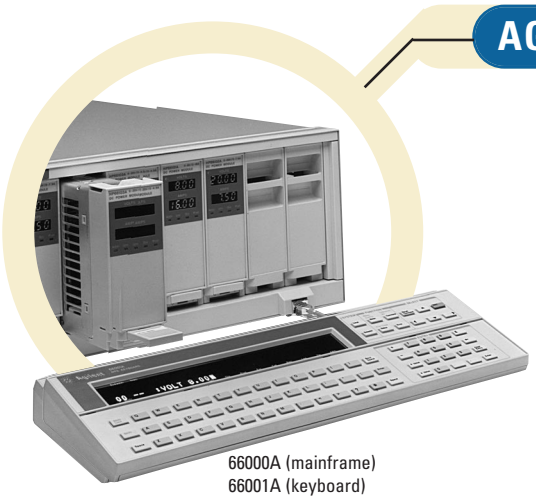

66000A (mainframe)
66001A (keyboard)

Modular Power System: 1,200 W per mainframe

High density: eight slots in 7 inches of rack space
Output sequencing
Low ripple and noise
High-accuracy read-back of voltage and current over GPIB
Standard Commands for Programmable Instruments (SCPI)
Optional keyboard and display unit
Serial link to connect two mainframes at one GPIB address
Optional isolation and polarity-reversal relays
Built-in self-test
VXI*plug&play* drivers

66000 Modular Power System

The Agilent 66000 modular power system simplifies test-system assembly, cabling, programming, debugging and operation. It is ideal for ATE and production test environments, where it can supply bias power and stimulus to subassemblies and final products. The modular power system saves rack space, the 7-inch-high (4-EIA units) mainframe can accommodate up to eight dc power modules.

Key Features

- GPIB-programmable voltage and current
- Programmable over-voltage and over-current protection
- Self-test initiated at power-up or from GPIB command
- Electronic calibration over GPIB or from keyboard
- Over-temperature protection
- Discrete fault indicator/remote inhibit (DFI/RI)
- Five nonvolatile store-recall states per output
- User-definable power-on state

SPECIFICATIONS

(at 0° to 55° C unless otherwise noted)

			66101A	66102A	66103A	66104A	66105A	66106A
Output ratings (at 40°C)	Output Voltage		0 to 8 V	0 to 20 V	0 to 35 V	0 to 60 V	0 to 120 V	0 to 200 V
	Output Current		0 to 16 A	0 to 7.5 A	0 to 4.5 A	0 to 2.5 A	0 to 1.25 A	0 to 0.75 A
	Output Power		128 W	150 W	150 W	150 W	150 W	150 W
Programming accuracy (at 25°C ±5°C)	Voltage	0.03%+	3 mV	8 mV	13 mV	27 mV	54 mV	90 mV
	Current	0.03%+	6 mA	3 mA	2 mA	1.2 mA	0.6 mA	0.4 mA
Readback accuracy (via GPIB or keyboard display at 25°C ±5°C)	Voltage	0.02%+	2 mV	5 mV	8 mV	16 mV	32 mV	54 mV
	Current	0.02%+	6 mA	3 mA	2 mA	1 mA	0.6 mA	0.3 mA
Ripple and noise (20 Hz to 20 MHz)	Constant voltage	rms	2 mV	3 mV	5 mV	9 mV	18 mV	30 mV
		peak to peak	5 mV	7 mV	10 mV	15 mV	25 mV	50 mV
	Constant current	rms	8 mA	4 mA	2 mA	1 mA	1 mA	1 mA
Line regulation	Voltage		0.5 mV	0.5 mV	1 mV	2 mV	3 mV	5 mV
	Current		0.75 mA	0.5 mA	0.3 mA	0.1 mA	50 µA	30 µA
Load regulation	Voltage		1 mV	1 mV	1 mV	2 mV	4 mV	7 mV
	Current		0.5 mA	0.2 mA	0.2 mA	0.1 mA	50 µA	30 µA
Transient response time	Less than 1 ms for the output voltage to recover within 100 mV of its previous level following any step change in load current up to 10 percent of rated current							
Supplemental Characteristics	(Non-warranted characteristics determined by design that are useful in applying the product)							
Average resolution	Voltage		2.4 mV	5.9 mV	10.4 mV	18.0 mV	36.0 mV	60.0 mV
	Current		4.6 mA	2.3 mA	1.4 mA	0.75 mA	0.39 mA	0.23 mA
	Output voltage programming (OVP)		50 mV	120 mV	200 mV	375 mV	750 mV	1.25 mV
OVP accuracy			250 mV	500 mV	800 mV	1 V	1.5 V	2.5 V

For more information in the U.S.A. call 1-800-452-4844

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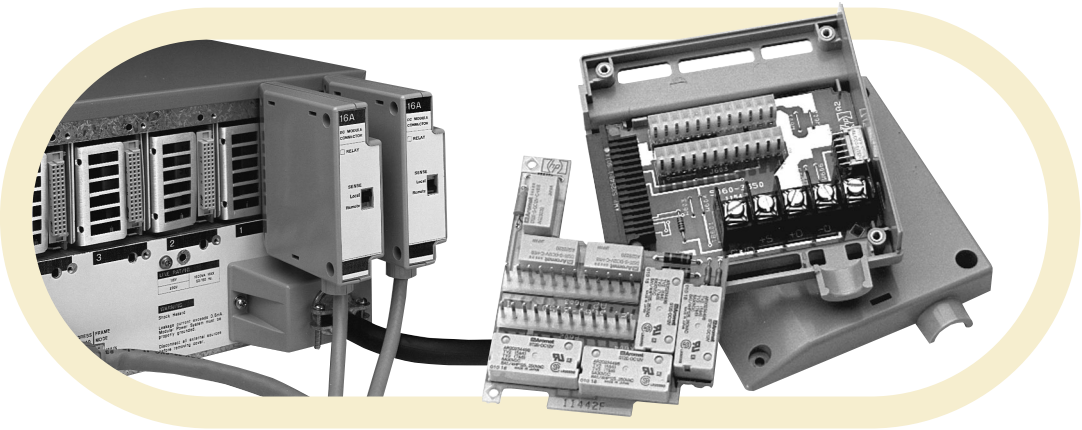

dc Floating Voltage: Output terminals can be floated up to ±240 Vdc from chassis ground

Remote Sensing: Up to half the rated output voltage can be dropped across each load lead. Add 2 mV to the voltage load regulation specification for each 1–V change in the negative output lead caused by a load current change.

Command Processing Time: The average time for the output voltage to change after getting an GPIB command is 20 ms

Output Programming Response Time (with full resistive load): The rise and fall time (10% to 90% and 90% to 10%) of the output voltage is less than 20 ms. The output voltage change settles within 0.1% of the final value in less than 120 ms.

Down Programming: An active down-programmer sinks approximately 10% of the rated output current

Calibration Interval: One year

ac Input of System Mainframe

Voltage	100 Vac	120 Vac	200 Vac	220 Vac	230 Vac	240 Vac
Max. Current	29 A	25 A	16 A	16 A	15 A	15 A

Input Power of System Mainframe: 3200 VA (max.), 1800 W (max.), 1600 W (typ.)

GPIB Capabilities: SH1, AH1, TE6, LE4, SR1, RL1, PP0, DC1, DT1, E1, and C0, and a command set compatible with IEEE-488.2 and SCPI

Regulatory Compliance: Listed to UL 1244; certified to CSA 22.2 No. 231; conforms to IEC 61010-1. See page 73 for more information

Weight: Net, 66000A, 15 kg (33 lb); 66001A, 1.05 kg (2.3 lb); 66101-66106A, 2.8 kg (6 lb). Shipping, 66000A, 19 kg (42 lb); 66001A, 1.34 kg (2.95 lb); 66101–66106A, 4.1 kg (9 lb).

Size: 66000A: 425.7 mm W x 192 mm H x 677.93 mm D (16.76 in x 7.28 in x 26.69 in), including feet and rear connectors (See Page 56 for more details.)

Warranty Period: Three years

Multiple Mainframes at One GPIB Address

The Agilent serial link feature will allow you to control up to 16 outputs at one GPIB address by connecting an auxiliary mainframe. The serial link cable comes standard with the 66000 MPS mainframe. For applications with a broader range of power requirements, one 66000 mainframe can be connected with up to eight of the 6640, 6650, 6670, 6680, or 6030 series of system power supplies. This solution provides power ranges from 150 watts to 5,000 watts at one primary GPIB address.

Output Connections

System assembly is simplified thanks to a quick-disconnect connector assembly on each module. Once your wires are connected to the load, the connector design permits the modules to be removed from the front of the mainframe without disconnecting cabling or removing the mainframe from the rack. One connector assembly is shipped with each module.

Output Sequencing

Increase test throughput by using the output sequencing feature of the 66000 MPS. This powerful feature allows you to download up to 20 voltage, current, and dwell-time parameter sets per output. This sequence can be paced by the programmed dwell times. As an alternative, triggers can be used to step through the output list. The output sequences can be executed without controller intervention, thereby increasing overall test system throughput. More detailed information on the triggering and output sequencing capabilities can be obtained by ordering the 66000 Modular Power System Product Note (p/n 5091-2497E) described below.

Key Literature

66000 Modular Power System Product Note
p/n 5091-2497E

Ordering Information

66000A MPS Mainframe
***Opt 908** Rack-mount Kit (p/n 5063-9215)
***Opt 909** Rack-mount Kit with Handles (p/n 5063-9222)
***Note:** Options 908 and 909 require cabinet rails (E3663AC) or a slide kit (p/n 1494-0059) to support the loaded mainframe's weight.
Opt 910 Extra Manual Set (Standard unit is shipped with Installation Guide only.)
A line cord option must be specified. See pages 48-51.

66001A MPS Keyboard includes 2m (6 ft) cables
66002A Rack kit for 66001A keyboard

Module Options
66101A dc Power Module 8 V, 16 A
66102A dc Power Module 20 V, 7.5 A
66103A dc Power Module 35 V, 4.5 A
66104A dc Power Module 60 V, 2.5 A
66105A dc Power Module 120 V, 1.25 A
66106A dc Power Module 200 V, 0.75 A
Opt 760 Open/Close and Polarity Reversal Relays
Opt 910 Service Manual, Extra Programming Guide and Operating Guide

Accessories

p/n 5060-3351 Field-Installable Relay Kit
p/n 5060-3386 Standard Connector Assembly
p/n 5060-3387 Standard Connector Assembly with installed relays (Option 760)
p/n 66000-90001 Mainframe Installation Guide
p/n 5959-3360 dc Power Module User's Guide
p/n 5959-3362 dc Power Module Programming Guide
p/n 66000-90003 Mainframe Service Manual
p/n 5959-3364 dc Power Module Service Manual
p/n 1252-1488 4-Pin FLT/Inhibit Connector
E3663AC Support rails for Agilent rack cabinets

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Your Requested Excerpt from the Agilent Power Products Catalog

The preceding page(s) are an excerpt from the *2001-2002 Power Products Catalog*. We hope that these pages supply the information that you currently need. If you would like to have further information about the extensive selection of Agilent dc power supplies, ac sources, and dc electronic loads, please visit **www.agilent.com / find / power** to print a copy of the complete Power Products catalog, or to request that a copy be sent to you. You will also find a lot of other useful information on this web site.

In the full Power Products Catalog, you will find that Agilent offers much more than basic power generation. If you need basic, clean, power for your lab bench, it's there. But in each product category, we've also integrated the capabilities that you need for a complete power solution, including extensive measurement and analysis capabilities.

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Product specifications and descriptions in this document subject to change without notice.

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